

# PATENT ABSTRACTS OF JAPAN

(11) Publication number : 06-256765

(43) Date of publication of application : 13.09.1994

(51) Int.CI. C10B 27/06  
C10B 41/00

(21) Application number : 05-028046 (71) Applicant : OTTO:KK

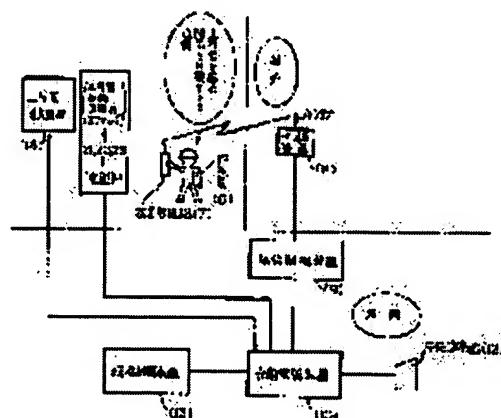
(22) Date of filing : 17.02.1993 (72) Inventor : HANAMURA SHUNICHIRO  
KIMURA MASAHITO  
FUNAKI SUSUMU  
MORIMOTO YOSHIHITO  
SATO YOSHIHARU  
KIMURA KOZO  
FUJII SHIGETOSHI

(54) WIRELESS CONTROL DEVICE FOR OPERATING RISER PIPE VALVES OF COKE OVEN AT WORK SITE

(57) Abstract:

PURPOSE: To provide the control device used for safe works and capable of avoiding the high temperature damage of operation devices for opening or closing valves for a riser pipe at a working site on the maintenance of a coke oven.

CONSTITUTION: The wireless control device for operating the valves of the riser pipe of a coke oven is characterized by disposing a portable wireless device 7 at the below-mentioned position, the portable wireless device 7 being operated by a worker 6 placed at the position capable of visually examining the opened or closed states of the valves 3, 4, 5 of the riser pipe 2 on a work except stationary works for a coke oven, outdoors disposing an antenna repeating device 8 for receiving



electric waves transmitted from the portable wireless device 7, connecting the antenna repeating device 8 to a wireless control device 9 in a control chamber through a wire and further to a valve-control device 10 through a wire, connecting the valve control device 10 to the electromagnetic valves of the riser pipe through wires, converting signal electric currents converted from the electric waves the antenna repeating device 8 into control electric currents with the wireless control device 9, converting the control electric currents into valve-driving electric currents with the valve control device 10, and charging the driving electric currents to the respective electromagnetic valves of the rise pipe 2.

---

## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office